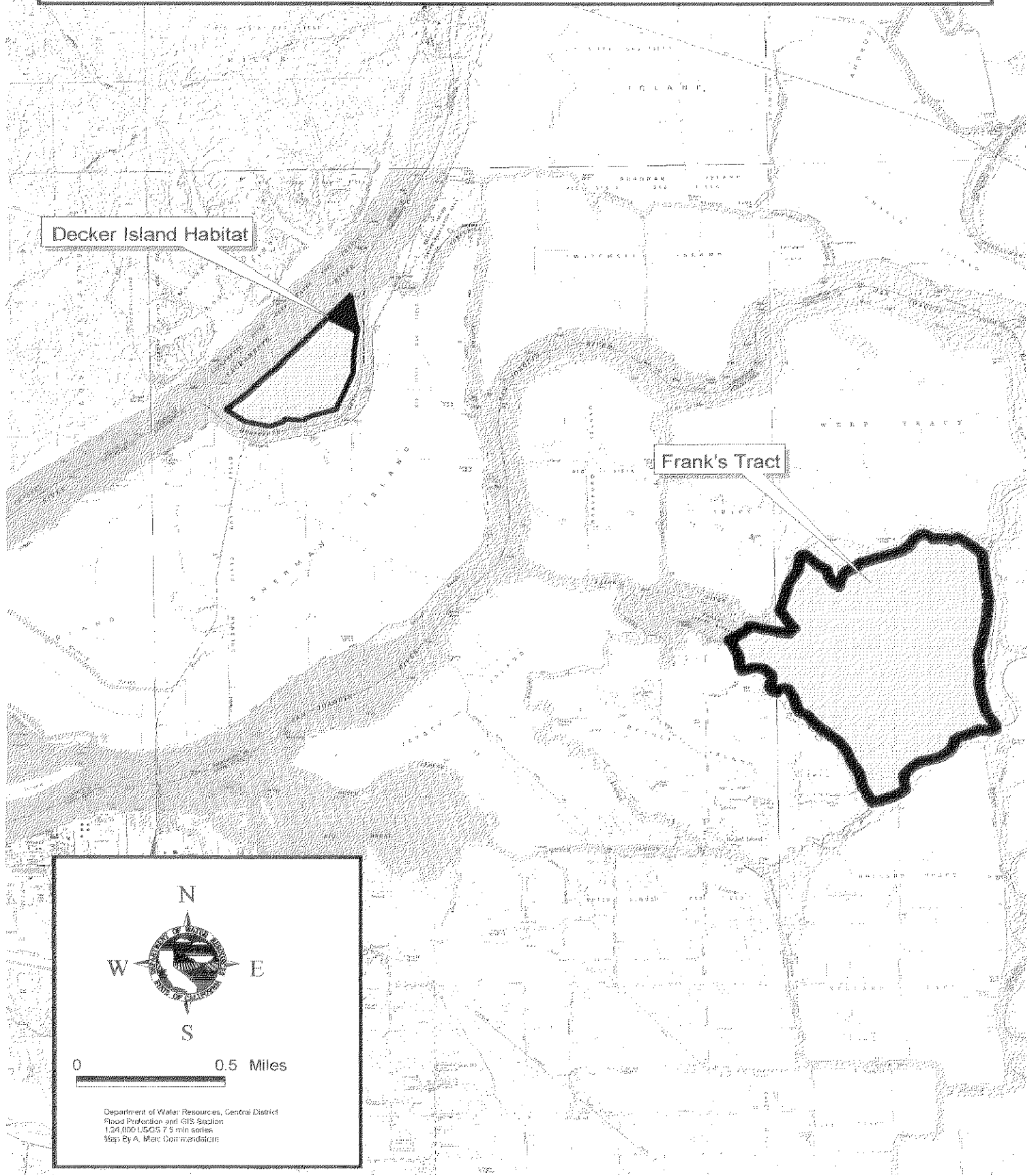


# EXHIBITS







# Location of Decker Island and Frank's Tract







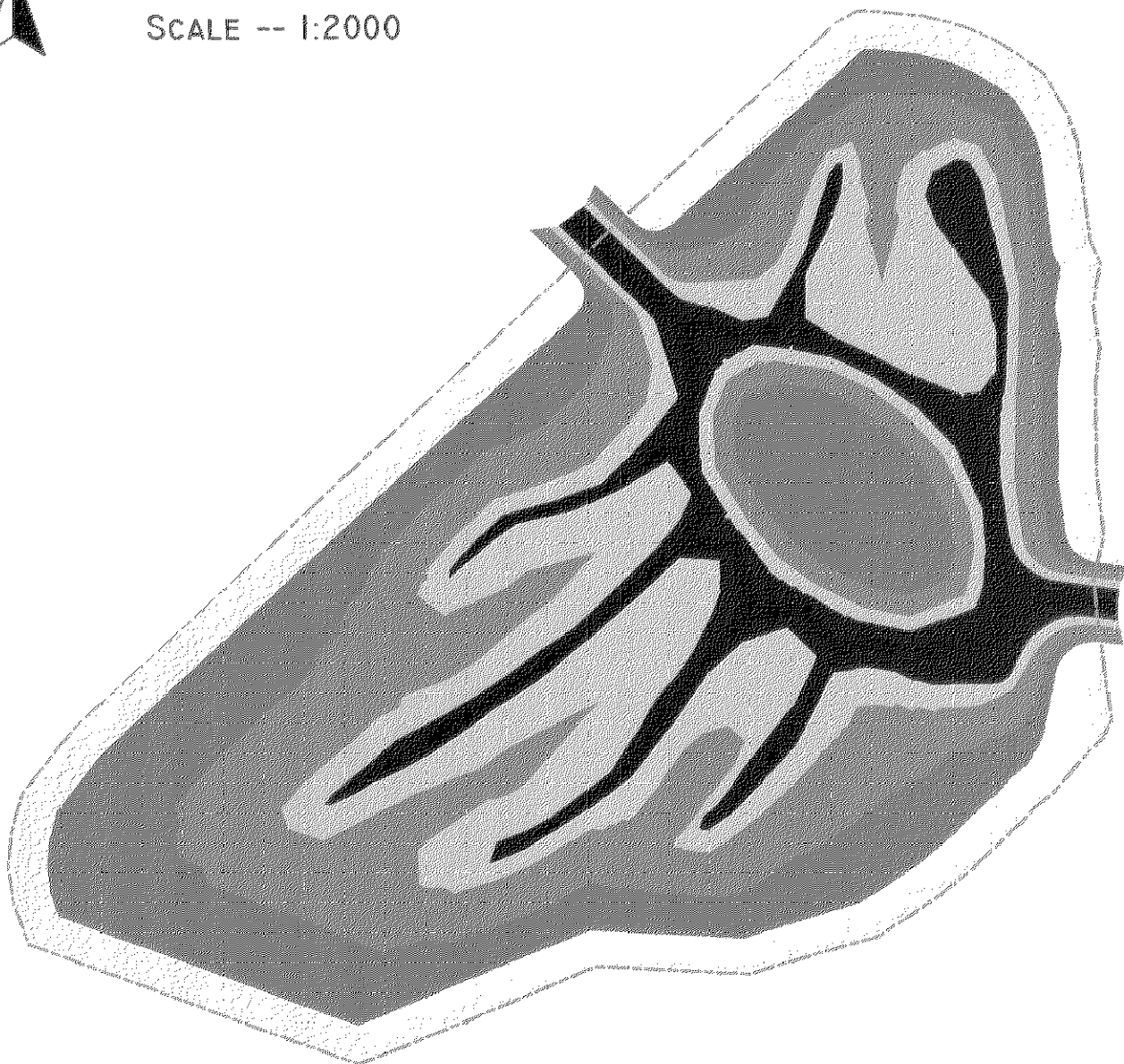
# DECKER ISLAND HABITAT RESTORATION PROJECT CURRENTLY BEING DEVELOPED

-  SHALLOW WATER (-6' TO -5')
-  RIVERINE AQUATIC BED (-5' TO -1')
-  EMERGENT TIDAL MARSH (-1' TO 2')
-  SHADED RIVERINE AQUATIC (2' TO 6')
-  RIPARIAN FOREST (6' TO 8')
-  GRASSLAND/SHRUB (8' TO ~21' (PROJECT BOUNDARY))



100 0 100 200 FEET

SCALE -- 1:2000



**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION  
PHASE'S II&III: DEMONSTRATION ISLAND CONSTRUCTION AND MONITORING**

**ERP Objectives**

This proposal meets the ERP objectives outlined in Volume 1:

**ECOSYSTEM PROCESSES:**

- natural floodplains (p. 83)
- Bay-Delta aquatic food-web (p. 95)

**HABITATS:**

- tidal perennial aquatic habitat (p. 111)
- delta sloughs (p. 120)
- mid-channel islands (p. 125)
- fresh emergent vegetation (p.136)
- freshwater fish habitats (p. 155)
- essential fish habitats (p. 160)

**SPECIES: (Priority Group I)**

- delta smelt (p. 191)
- longfin smelt (p. 196)
- green sturgeon (p. 203)
- splittail (p.207)
- chinook salmon (p. 211)
- steelhead trout (p. 225)
- three Priority Group II species
- two Priority Group III species
- six Priority Group VI species
- five harvested species

# FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

Prepared for: CALFED  
Prepared by: Department of Water Resources  
Submitted: April 16, 1999

## Budget Summary

Task No.	Task/Subtask Description	Direct Labor Hours	Total Department of Water Resources	Overhead Labor (General, Admin and Fee)	Service Contracts	Material and Acquisition Contracts	Miscellaneous and Other Direct Costs	Task Total
<b>1.00</b>	<b>STAGE 1 - PRE-CONSTRUCTION SERVICES</b>							
<b>1.01</b>	<b>Final Permitting</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 196,076</b>	<b>\$ -</b>	<b>\$ 19,607</b>	<b>\$ 215,683</b>
1.01.01	Continue Habitat Restoration Plan		\$ -		\$ 27,380		\$ 2,738	\$ 30,118
1.01.02	Continue Section 404 Permit Process		\$ -		\$ 19,780		\$ 1,978	\$ 21,758
1.01.03	Continue Section 404 (b)(1) Alternatives Analysis		\$ -		\$ 7,433		\$ 743	\$ 8,176
1.01.04	Assist Corps w/Public Notice and Response to Comments		\$ -		\$ 6,429		\$ 643	\$ 7,072
1.01.05	Assist w/Federal ESA Compliance		\$ -		\$ 17,313		\$ 1,731	\$ 19,044
1.01.06	Assist w/State ESA Consultations		\$ -		\$ 14,539		\$ 1,454	\$ 15,993
1.01.07	Assist w/Section 401 Compliance		\$ -		\$ 14,266		\$ 1,427	\$ 15,693
1.01.08	Assist w/Section 106 Compliance		\$ -		\$ 2,344		\$ 234	\$ 2,578
1.01.09	Assist w/Streambed Alteration Agreement Section 1601 Process		\$ -		\$ 2,780		\$ 278	\$ 3,058
1.01.10	Attend Project Team and Agency Meetings		\$ -		\$ 8,102		\$ 810	\$ 8,912
1.01.11	Assist w/5-Year Physical and Vegetative Biological Monitoring Program		\$ -		\$ 75,710		\$ 7,571	\$ 83,281
<b>1.02</b>	<b>Preliminary Biological Monitoring</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 55,000</b>	<b>\$ -</b>	<b>\$ 5,500</b>	<b>\$ 60,500</b>
1.02.01	Prepare Specific Biological Monitoring Program		\$ -		\$ 5,500		\$ 550	\$ 6,050
1.02.02	Perform Pre-Construction Monitoring		\$ -		\$ 49,500		\$ 4,950	\$ 54,450
<b>1.03</b>	<b>Final Design of Decker Island</b>	<b>400</b>	<b>\$ 32,000</b>	<b>\$ -</b>	<b>\$ 61,235</b>	<b>\$ -</b>	<b>\$ 9,324</b>	<b>\$ 102,559</b>
1.03.01	Revise Final Design to Incorporate Permit Requirements	320	\$ 25,600		\$ 34,155		\$ 5,976	\$ 65,731
1.03.02	Prepare Decker Island Grading Plan		\$ -		\$ 27,080		\$ 2,708	\$ 29,788
1.03.03	Perform Design Review QA/QC	80	\$ 6,400		\$ -		\$ 640	\$ 7,040
<b>1.04</b>	<b>Solicit Construction Bids</b>	<b>1,075</b>	<b>\$ 85,974</b>	<b>\$ -</b>	<b>\$ 9,320</b>	<b>\$ -</b>	<b>\$ 9,530</b>	<b>\$ 104,824</b>
1.04.01	Prepare Solicitation & Advertise Project for Bid	195	\$ 15,632		\$ -		\$ 1,563	\$ 17,195
1.04.02	Conduct Pre-Bid Meeting	98	\$ 7,816		\$ 1,000		\$ 882	\$ 9,698
1.04.03	Respond to Contractor Questions & Issue Addenda	195	\$ 15,632		\$ 3,880		\$ 1,951	\$ 21,463
1.04.04	Conduct Bid Opening	98	\$ 7,816		\$ 1,000		\$ 882	\$ 9,698
1.04.05	Review Bids & Award Contract	391	\$ 31,263		\$ -		\$ 3,126	\$ 34,389
1.04.06	Conduct Pre-Construction Meeting	98	\$ 7,816		\$ 3,440		\$ 1,126	\$ 12,382
<b>1.00</b>	<b>SUB-TOTAL STAGE 1</b>	<b>1,475</b>	<b>\$ 117,974</b>	<b>\$ -</b>	<b>\$ 321,631</b>	<b>\$ -</b>	<b>\$ 43,961</b>	<b>\$ 483,566</b>

# FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

Prepared for: CALFED  
Prepared by: Department of Water Resources  
Submitted: April 16, 1999

## Budget Summary

Task No.	Task/Subtask Description	Direct Labor Hours	Total Department of Water Resources	Overhead Labor (General, Admin and Fee)	Service Contracts	Material and Acquisition Contracts	Miscellaneous and Other Direct Costs	Task Total
<b>2.00</b>	<b>STAGE 2 - ISLAND #1 CONSTRUCTION &amp; MONITORING</b>							
2.01	Construction of Island #1				\$ 11,525	\$ 3,774,250	\$ 1,153	\$ 3,786,928
2.01.01	Mobilization/Demobilization (25% of Const. Costs)					\$ 281,250		
2.01.02	Excavation on Decker Island (300,000 cy @ \$3.00/cy)					\$ 900,000		
2.01.03	Load on Barge (300,000 cy @ \$0.75/cy)					\$ 225,000		
2.01.04	Transport to Franks Tract (300,000 cy @ \$3.00/cy)					\$ 900,000		
2.01.05	Hydraulically Unload and Place (300,000 cy @ \$4.00/cy)					\$ 1,200,000		
2.01.06	Island Planting at Franks Tract					\$ 268,000		
2.02	Construction Management & Inspection Services	3,919	\$ 313,520		\$ 189,346		\$ 50,287	\$ 553,153
2.03	Engineering Support				\$ 37,869		\$ 3,787	\$ 41,656
2.04	Geotechnical Support				\$ 30,553		\$ 3,055	\$ 33,608
2.05	Water Quality Monitoring (3 yrs)				\$ 69,000		\$ 6,900	\$ 75,900
2.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)				\$ 150,000		\$ 15,000	\$ 165,000
2.07	Prepare Demonstration Project Evaluation Final Report	60	\$ 4,800		\$ 20,380		\$ 2,518	\$ 27,698
<b>2.00</b>	<b>SUB-TOTAL STAGE 2</b>	<b>3,979</b>	<b>\$ 318,320</b>	<b>\$ -</b>	<b>\$ 508,674</b>	<b>\$ 3,774,250</b>	<b>\$ 82,700</b>	<b>\$ 4,683,944</b>
<b>3.00</b>	<b>STAGE 3 - ISLAND #2 CONSTRUCTION &amp; MONITORING</b>							
3.01	Construction of Island #2				\$ 10,725	\$ 2,045,250	\$ 1,073	\$ 2,057,048
3.01.01	Mobilization/Demobilization (10% of Const. Costs)					\$ 63,750		
3.01.02	Excavation on Decker Island (170,000 cy @ \$3.00/cy)					\$ 510,000		
3.01.03	Load on Barge (170,000 cy @ \$0.75/cy)					\$ 127,500		
3.01.04	Transport to Franks Tract (170,000 cy @ \$3.00/cy)					\$ 510,000		
3.01.05	Hydraulically Unload and Place (170,000 cy @ \$4.00/cy)					\$ 680,000		
3.01.06	Island Planting at Franks Tract					\$ 154,000		
3.02	Construction Management & Inspection Services	2,142	\$ 171,360		\$ 102,852		\$ 27,421	\$ 301,633
3.03	Engineering Support				\$ 20,570		\$ 2,057	\$ 22,627
3.04	Geotechnical Support				\$ 28,584		\$ 2,858	\$ 31,442
3.05	Water Quality Monitoring (3 yrs)				\$ 103,000		\$ 10,300	\$ 113,300
3.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)				\$ 150,000		\$ 15,000	\$ 165,000
3.07	Prepare Demonstration Project Evaluation Final Report	60	\$ 4,800		\$ 20,380		\$ 2,518	\$ 27,698



# FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

Prepared for: CALFED  
Prepared by: Department of Water Resources  
Submitted: April 16, 1999

## Budget Summary

Task No.	Task/Subtask Description	Direct Labor Hours	Total Department of Water Resources	Overhead Labor (General, Admin and Fee)	Service Contracts	Material and Acquisition Contracts	Miscellaneous and Other Direct Costs	Task Total
3.00	SUB-TOTAL STAGE 3	2,202	\$ 176,160	\$ -	\$ 436,112	\$ 2,045,250	\$ 61,227	\$ 2,718,749
4.00	STAGE 4 - ISLAND #3 CONSTRUCTION & MONITORING							
4.01	Construction of Island #3				\$ 11,525	\$ 4,213,750	\$ 1,153	\$ 4,226,428
4.01.01	Mobilization/Demobilization (10% of Const. Costs)					\$ 131,250		
4.01.02	Excavation on Decker Island (350,000 cy @ \$3.00/cy)					\$ 1,050,000		
4.01.03	Load on Barge (350,000 cy @ \$0.75/cy)					\$ 262,500		
4.01.04	Transport to Franks Tract (350,000 cy @ \$3.00/cy)					\$ 1,050,000		
4.01.05	Hydraulically Unload and Place (350,000 cy @ \$4.00/cy)					\$ 1,400,000		
4.01.06	Island Planting at Franks Tract					\$ 320,000		
4.02	Construction Management & Inspection Services	3,837	\$ 306,960		\$ 211,321		\$ 51,828	\$ 570,109
4.03	Engineering Support				\$ 42,264		\$ 4,226	\$ 46,490
4.04	Geotechnical Support				\$ 25,222		\$ 2,522	\$ 27,744
4.05	Water Quality Monitoring (3 yrs)				\$ 103,000		\$ 10,300	\$ 113,300
4.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)				\$ 150,000		\$ 15,000	\$ 165,000
4.07	Prepare Demonstration Project Evaluation Final Report	60	\$ 4,800		\$ 20,380		\$ 2,518	\$ 27,698
4.00	SUB-TOTAL STAGE 4	3,897	\$ 311,760	\$ -	\$ 563,713	\$ 4,213,750	\$ 87,547	\$ 5,176,770

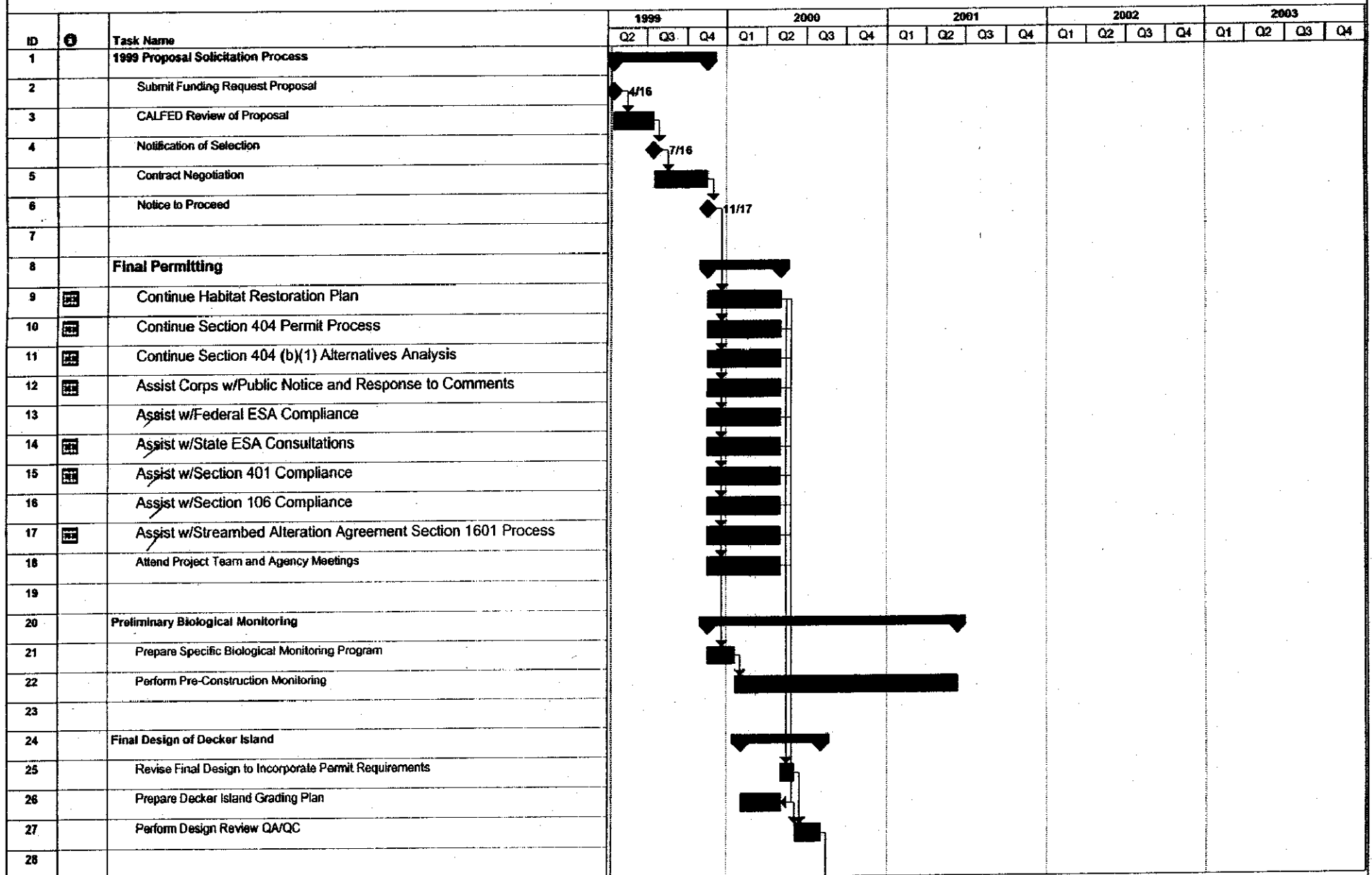
# FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION PHASES II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

Prepared for: CALFED  
Prepared by: Department of Water Resources  
Submitted: April 16, 1999

## Budget Summary

Task No.	Task/Subtask Description	Direct Labor Hours	Total Department of Water Resources	Overhead Labor (General, Admin and Fee)	Service Contracts	Material and Acquisition Contracts	Miscellaneous and Other Direct Costs	Task Total
<b>5.00</b>	<b>STAGE 5 - ISLAND #4 CONSTRUCTION &amp; MONITORING</b>							
5.01	Construction of Island #4				\$ 10,975	\$ 2,847,800	\$ 1,098	\$ 2,859,873
5.01.01	Mobilization/Demobilization (20% of Const. Costs)					\$ 135,000		
5.01.02	Excavation on Decker Island (180,000 cy @ \$3.00/cy)					\$ 540,000		
5.01.03	Load on Barge (180,000 cy @ \$0.75/cy)					\$ 135,000		
5.01.04	Transport to Franks Tract (180,000 cy @ \$3.00/cy)					\$ 540,000		
5.01.05	Hydraulically Unload and Place (180,000 cy @ \$4.00/cy)					\$ 720,000		
5.01.06	Island Planting at Franks Tract					\$ 160,000		
5.01.07	Final Grading at Decker Island					\$ 217,800		
5.01.08	Planting at Decker Island					\$ 400,000		
5.02	Construction Management & Inspection Services	2,199	\$ 175,920		\$ 142,994		\$ 31,891	\$ 350,805
5.03	Engineering Support				\$ 28,599		\$ 2,860	\$ 31,459
5.04	Geotechnical Support				\$ 24,379		\$ 2,438	\$ 26,817
5.05	Water Quality Monitoring (3 yrs)				\$ 69,000		\$ 6,900	\$ 75,900
5.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)				\$ 150,000		\$ 15,000	\$ 165,000
5.07	Prepare Demonstration Project Evaluation Final Report	60	\$ 4,800		\$ 20,380		\$ 2,518	\$ 27,698
<b>5.00</b>	<b>SUB-TOTAL STAGE 5</b>	<b>2,259</b>	<b>\$ 180,720</b>	<b>\$ -</b>	<b>\$ 446,326</b>	<b>\$ 2,847,800</b>	<b>\$ 62,705</b>	<b>\$ 3,537,551</b>
	<b>TOTAL PROJECT COST</b>	<b>13,812</b>	<b>\$ 1,104,934</b>	<b>\$ -</b>	<b>\$ 2,276,456</b>	<b>\$ 12,881,050</b>	<b>\$ 338,140</b>	<b>\$ 16,600,580</b>

**Franks Tract/Decker Island Wetlands Habitat Restoration  
Phase's II&III: Demonstration Island Construction & Monitoring**



Franks Tract/Decker Island Wetlands  
Phase's II&III: Demonstration Island

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

External Tasks

Project Summary

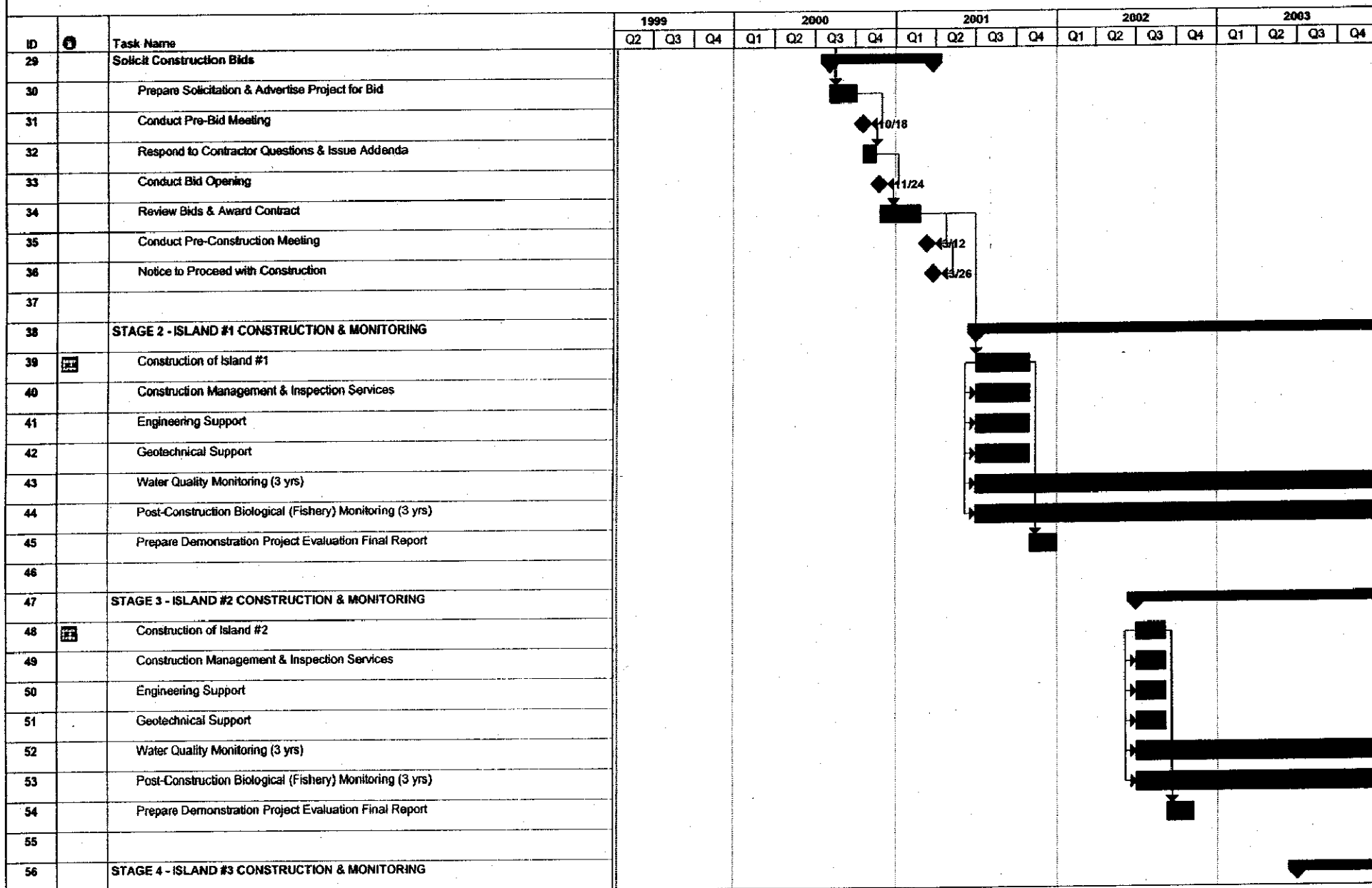
Split

Rolled Up Split

Date: Fri 4/9/99

**EXHIBIT IV**

**Franks Tract/Decker Island Wetlands Habitat Restoration  
Phase's II&III: Demonstration Island Construction & Monitoring**



Franks Tract/Decker Island Wetlands  
Phase's II&III: Demonstration Island

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

External Tasks

Project Summary

Split

Rolled Up Split

Date: Fri 4/9/99

EXHIBIT IV

**Franks Tract/Decker Island Wetlands Habitat Restoration  
Phase's II&III: Demonstration Island Construction & Monitoring**

ID	Task Name	1999			2000				2001				2002				2003			
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
57	Construction of Island #3																			
58	Construction Management & Inspection Services																			
59	Engineering Support																			
60	Geotechnical Support																			
61	Water Quality Monitoring (3 yrs)																			
62	Post-Construction Biological (Fishery) Monitoring (3 yrs)																			
63	Prepare Demonstration Project Evaluation Final Report																			
64																				
65	STAGE 5 - ISLAND #4 CONSTRUCTION & MONITORING																			
66	Construction of Island #4																			
67	Final Grading at Decker Island																			
68	Planting at Decker Island																			
69	Construction Management & Inspection Services																			
70	Engineering Support																			
71	Geotechnical Support																			
72	Water Quality Monitoring (3 yrs)																			
73	Post-Construction Biological (Fishery) Monitoring (3 yrs)																			
74	Prepare Demonstration Project Evaluation Final Report																			

Franks Tract/Decker Island Wetlands  
Phase's II&III: Demonstration Island

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

External Tasks

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Split

Rolled Up Split

Date: Fri 4/9/99

EXHIBIT IV

**Franks Tract/Decker Island Wetlands Habitat Restoration  
Phase's II&III: Demonstration Island Construction & Monitoring**

ID	①	Task Name	2004				2005				2006				2007				2008		
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
29		<b>Solicit Construction Bids</b>																			
30		Prepare Solicitation & Advertise Project for Bid																			
31		Conduct Pre-Bid Meeting																			
32		Respond to Contractor Questions & Issue Addenda																			
33		Conduct Bid Opening																			
34		Review Bids & Award Contract																			
35		Conduct Pre-Construction Meeting																			
36		Notice to Proceed with Construction																			
37																					
38		<b>STAGE 2 - ISLAND #1 CONSTRUCTION &amp; MONITORING</b>																			
39	■	Construction of Island #1																			
40		Construction Management & Inspection Services																			
41		Engineering Support																			
42		Geotechnical Support																			
43		Water Quality Monitoring (3 yrs)																			
44		Post-Construction Biological (Fishery) Monitoring (3 yrs)																			
45		Prepare Demonstration Project Evaluation Final Report																			
46																					
47		<b>STAGE 3 - ISLAND #2 CONSTRUCTION &amp; MONITORING</b>																			
48	■	Construction of Island #2																			
49		Construction Management & Inspection Services																			
50		Engineering Support																			
51		Geotechnical Support																			
52		Water Quality Monitoring (3 yrs)																			
53		Post-Construction Biological (Fishery) Monitoring (3 yrs)																			
54		Prepare Demonstration Project Evaluation Final Report																			
55																					
56		<b>STAGE 4 - ISLAND #3 CONSTRUCTION &amp; MONITORING</b>																			

Franks Tract/Decker Island Wetlands  
Phase's II&III: Demonstration Island

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

External Tasks

Project Summary

Split

Rolled Up Split

Date: Fri 4/9/99

**EXHIBIT IV**

**Franks Tract/Decker Island Wetlands Habitat Restoration  
Phase's II&III: Demonstration Island Construction & Monitoring**

ID	③	Task Name	2004				2005				2006				2007				2008		
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
57	■	Construction of Island #3																			
58		Construction Management & Inspection Services																			
59		Engineering Support																			
60		Geotechnical Support																			
61		Water Quality Monitoring (3 yrs)																			
62		Post-Construction Biological (Fishery) Monitoring (3 yrs)																			
63		Prepare Demonstration Project Evaluation Final Report																			
64																					
65		<b>STAGE 5 - ISLAND #4 CONSTRUCTION &amp; MONITORING</b>																			
66	■	Construction of Island #4																			
67		Final Grading at Decker Island																			
68		Planting at Decker Island																			
69		Construction Management & Inspection Services																			
70		Engineering Support																			
71		Geotechnical Support																			
72		Water Quality Monitoring (3 yrs)																			
73		Post-Construction Biological (Fishery) Monitoring (3 yrs)																			
74		Prepare Demonstration Project Evaluation Final Report																			

Franks Tract/Decker Island Wetlands  
Phase's II&III: Demonstration Island

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

External Tasks

Project Summary

Split

Rolled Up Split

# FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION PHASE'S II&III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING

Prepared for: CALFED  
Prepared by: Moffatt and Nichol Engineers  
Submitted: April 16, 1999

## Task Summary

Task No.	Task/Subtask Description	LEAD	DELIVERABLE
<b>1.00</b>	<b>STAGE 1 - PRE-CONSTRUCTION SERVICES</b>		
<b>1.01</b>	<b>Final Permitting</b>		
1.01.01	Continue Habitat Restoration Plan	JSA	Letter Report
1.01.02	Continue Section 404 Permit Process	JSA	Project Details
1.01.03	Continue Section 404 (b)(1) Alternatives Analysis	JSA	Alternatives Analysis
1.01.04	Assist Corps w/Public Notice and Response to Comments	JSA	Written Responses
1.01.05	Assist w/Federal ESA Compliance	JSA	Biological Assessments
1.01.06	Assist w/State ESA Consultations	JSA	Biological Assessments
1.01.07	Assist w/Section 401 Compliance	JSA	Project Details
1.01.08	Assist w/Section 106 Compliance	JSA	Letter Report
1.01.09	Assist w/Streambed Alteration Agreement Section 1601	JSA	Section 1601 Application
1.01.10	Attend Project Team and Agency Meetings	JSA	Meeting Minutes
1.01.11	Assist w/5-Year Physical and Vegetative Biological	JSA	Field Data and Final Reports
<b>1.02</b>	<b>Preliminary Biological Monitoring</b>		
1.02.01	Prepare Specific Biological Monitoring Program	JSA	Biological Monitoring Plan
1.02.02	Perform Pre-Construction Monitoring	JSA	Field Data and Final Reports
<b>1.03</b>	<b>Final Design of Decker Island</b>		
1.03.01	Revise Final Design to Incorporate Permit Requirements	DWR	Final Construction Documents
1.03.02	Prepare Decker Island Grading Plan	MNE	Final PS&E
1.03.03	Perform Design Review QA/QC	DWR	n/a
<b>1.04</b>	<b>Solicit Construction Bids</b>		
1.04.01	Prepare Solicitation & Advertise Project for Bid	DWR	Bid Documents
1.04.02	Conduct Pre-Bid Meeting	DWR	n/a
1.04.03	Respond to Contractor Questions & Issue Addenda	DWR	Written Responses and Addenda
1.04.04	Conduct Bid Opening	DWR	n/a
1.04.05	Review Bids & Award Contract	DWR	n/a
1.04.06	Conduct Pre-Construction Meeting	DWR	n/a
<b>2.00</b>	<b>STAGE 2 - ISLAND #1 CONSTRUCTION &amp; MONITORING</b>		
2.01	Construction of Island #1	DWR	n/a
2.02	Construction Management & Inspection Services	DWR	Quarterly Progress Reports
2.03	Engineering Support	MNE	Field Data Reports
2.04	Geotechnical Support	HTE	Field Data Reports
2.05	Water Quality Monitoring (3 yrs)	JSA	Preliminary and Annual Reports
2.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)	JSA	Field Data and Annual Reports
2.07	Prepare Demonstration Project Evaluation Final Report	MNE	Final Summary Report
<b>3.00</b>	<b>STAGE 3 - ISLAND #2 CONSTRUCTION &amp; MONITORING</b>		
3.01	Construction of Island #2	DWR	n/a
3.02	Construction Management & Inspection Services	DWR	Quarterly Progress Reports
3.03	Engineering Support	MNE	Field Data Reports
3.04	Geotechnical Support	HTE	Field Data Reports
3.05	Water Quality Monitoring (3 yrs)	JSA	Preliminary and Annual Reports
3.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)	JSA	Field Data and Annual Reports
3.07	Prepare Demonstration Project Evaluation Final Report	MNE	Final Summary Report



**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION  
PHASE'S II&III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

Prepared for: CALFED  
Prepared by: Moffatt and Nichol Engineers  
Submitted: April 16, 1999

**Task Summary**

Task No.	Task/Subtask Description	LEAD	DELIVERABLE
<b>4.00</b>	<b>STAGE 4 - ISLAND #3 CONSTRUCTION &amp; MONITORING</b>		
4.01	Construction of Island #3	DWR	n/a
4.02	Construction Management & Inspection Services	DWR	Quarterly Progress Reports
4.03	Engineering Support	MNE	Field Data Reports
4.04	Geotechnical Support	HTE	Field Data Reports
4.05	Water Quality Monitoring (3 yrs)	JSA	Preliminary and Annual Reports
4.06	Post-Construction Biological (Fishery) Monitoring (3 yrs)	JSA	Field Data and Annual Reports
4.07	Prepare Demonstration Project Evaluation Final Report	MNE	Final Summary Report

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION  
PHASE'S II & III: DEMONSTRATION ISLAND CONSTRUCTION & MONITORING**

**MEMORANDUM OF UNDERSTANDING**

**THIS MEMORANDUM OF UNDERSTANDING** is entered into this 16th day of April, 1999, by and between **DEPARTMENT OF PARKS AND RECREATION, STATE OF CALIFORNIA**, hereinafter referred to as "DPR", **DEPARTMENT OF FISH AND GAME, STATE OF CALIFORNIA**, hereinafter referred to as "DFG", **DEPARTMENT OF WATER RESOURCES, STATE OF CALIFORNIA**, hereinafter referred to as "DWR", and **MOFFATT & NICHOL ENGINEERS**, hereinafter referred to as "MNE." DPR, DFG, DWR and MNE collectively may be referred to as "Parties". This Memorandum is entered into with respect to the following facts:

- A. Franks Tract State Recreation Area ("SRA"), located in Contra Costa County, consists of two flooded Delta tracts totaling approximately 3300 acres owned by the State of California and operated by the DPR.
- B. Decker Island, located in Solano County, consists mostly of nonnative grassland and weedy herbaceous plants, such as yellow starthistle and pepperweed, and annual exotic grasses such as wild oats and soft chess. The island is surrounded by the Sacramento River to the northwest and Horseshoe Bend (a former meander of the Sacramento River) to the east, south, and west. The 15-acre project site is contained within 33.2 acres owned by the California Department of Fish and Game, located at the northern tip of the island.
- C. The Parties (excluding DFG) submitted a joint proposal to the CALFED Bay Delta Program ("CALFED") on July 28, 1997 for funding of a phased project to construct demonstration islands in Franks Tract SRA for the primary purpose of habitat restoration. The first phase of this effort consisting of completion of the CEQA environmental review and permit process, and preparation of construction documents has been funded through a \$231,500 grant from CALFED, authorized in the November 1997 funding cycle.
- D. The creation of demonstration islands at Franks Tract requires approximately 800,000 cubic yards of material. Decker Island is currently 20' above sea level due to dredge spoils deposited on the island when the Sacramento River was dredged between 1917 and 1937. This overburden material is available for borrow. Upon removal of the material on Decker Island, the excavated areas will be graded to create a diversity of aquatic, wetland, riparian, and upland habitats that have been greatly diminished in the delta and that are sought by CALFED's ERRP. These habitats include meandering channels, open water, riverine aquatic bed, emergent tidal marsh, shaded riverine aquatic, riparian, and grassland/shrub habitats. The priority species which will benefit from this project include San Joaquin River fall-run chinook salmon, winter-run

Franks Tract/Decker Island Wetlands Habitat Restoration  
Phase's II&III: Demonstration Island Construction & Monitoring  
Memorandum of Understanding  
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salmon, spring-run salmon, Delta smelt, splittail, striped bass, steelhead trout, and migratory birds.

E. In 1996 the Legislature enacted SB 900 and voters of California approved Proposition 204, the Clean, Safe, Reliable Water Supply Act of 1996 (the Act). The Act appropriates a total of \$25 million to DWR for the Delta Levee Rehabilitation Program. The Act requires that expenditures from this appropriation be consistent with a net long-term habitat improvement program, and have a net benefit for aquatic species in the Delta. DWR's participation in this project is based upon the general agreement that net long-term aquatic habitat improvements will be attributed to the Levee Rehabilitation Program consistent with DWR's financial contribution.

**IT IS AGREED AS FOLLOWS:**

1. DPR, DFG and MNE intend to support DWR's in constructing the Demonstration Islands for which funding is being requested from CALFED.
2. DWR shall enter into a contract with CALFED for implementation of the funded work, identified in the Proposal submitted to CALFED by DWR on April 16, 1999.
3. DWR will use good faith efforts to complete the CEQA environmental review and permit process for the Franks Tract portion of the project utilizing the services of Jones & Stokes Associates, Inc., an environmental consulting firm.
4. DWR will use good faith efforts to complete the CEQA environmental review and permit process for the Decker Island portion of the project.
5. DWR and MNE will prepare construction documents to enable solicitation of competitive bids for the construction phase under State procurement regulations in subsequent phases of work.
6. DPR and DFG will use good faith efforts to assist the completion of the CEQA environmental review and permit process for both the Franks Tract and Decker Island portions of the project by serving as lead agency for environmental certification, and applicant for all permits
7. This Memorandum may not be modified without written approval of the Parties.

**Franks Tract/Decker Island Wetlands Habitat Restoration  
Phase's II&III: Demonstration Island Construction & Monitoring  
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Page 3 of 4**

8. This Memorandum shall not be considered a contract or to be binding and may be terminated at any time by any of the Parties through written notification.
9. This instrument contains the entire agreement between the Parties hereto with respect to the transactions contemplated herein.
10. An Advisory Committee will be established to provide guidance and oversight of the project team. The Advisory Committee shall consist of those individuals identified in Article 11 of this Agreement.
11. All notices, requests, or other communications hereunder shall be in writing and shall be deemed to be duly given if personally delivered, sent by facsimile, or mailed to the Parties as follows:

**Ronald Brean**  
Gold Rush District  
Department of Parks and Recreation  
101 J Street  
Sacramento, CA 95814  
Tel: (916) 445-7373  
Fax: (916) 327-8872

Ronald Brean Date

**Ed Littrell**  
Delta Flood Protection Program Project Manager  
Department of Fish & Game, Region II  
1701 Nimbus Road, Suite A  
Rancho Cordova, CA 95670  
Tel: (916) 358-2924  
Fax: (916) 358-2912

Ed Littrell Date

**Karl Winkler**  
**Chief Central District**  
**Department of Water Resources**  
**3251 S. Street**  
**Sacramento, CA 95816**  
**Tel: (916) 227-7567**  
**Fax: (916) 227-7600**

Karl Winkler Date

**Richard B. Dornhelm, P.E.**  
**Moffatt & Nichol Engineers**

Franks Tract/Decker Island Wetlands Habitat Restoration  
Phase's II&III: Demonstration Island Construction & Monitoring  
Memorandum of Understanding  
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3000 Citrus Circle, Suite 230  
Walnut Creek, CA 94598  
Tel: (925) 944-5411  
Fax: (925) 944-4732

Richard Dornhelm

Date

12. This Memorandum may be signed in counterparts; each of which will be considered an original and which together will constitute one and the same agreement.

**DEPARTMENT OF WATER RESOURCES**

CENTRAL DISTRICT

3251 S STREET

SACRAMENTO, CA 95816-7017



Ms. Margit Aramburu  
Executive Director  
Delta Protection Commission  
14215 River Road  
Walnut Grove, California 95690

Dear Ms. Aramburu :

The Department of Water Resources' Flood Protection and Geographic Information Branch has joined with the Department of Fish and Game, the Department of Parks and Recreation, and Moffat & Nichol Engineers to submit a CALFED proposal for funding of the Franks Tract/Decker Island Wetlands Habitat Restoration Project. The purpose of this letter is to provide you with early notification of our intent to construct a habitat restoration project within your jurisdiction.

The proposed project includes removing the overburden material from the northern tip of Decker Island for construction of habitat islands in Franks Tract. The proposed project will restore:

- 45 acres of deeply flooded habitat at Franks Tract to 34 acres of shallow tidal perennial and inter-tidal habitat, and 11 acres of fresh emergent wetlands habitat; and
- 20 acres of existing weedy non-native habitat on Decker Island to create a diversity of aquatic, wetland, riparian, and upland habitats that have been greatly diminished in the Delta.

Franks Tract, owned by DPR, has been flooded since 1938. Flooding of the island has increased levee vulnerability and maintenance to the neighboring islands due to the large open water expanse increasing wave action against the levees. The 35 acres on the northern tip of Decker Island, owned by DFG, is currently 20 feet above sea level due to dredge spoils deposited on the Island when the Sacramento River was dredged between 1917 and 1937.

DWR will keep you informed of the status of this proposal, and should it be funded by CALFED, the progress of the project. If you have any questions regarding our proposal, please contact me at (916) 227-7567.

Sincerely,

A handwritten signature in black ink, appearing to read "Curt Schmutte", is positioned above the typed name.

Curt Schmutte, Chief  
Flood Protection and Geographic  
Information Branch

**DEPARTMENT OF WATER RESOURCES**

CENTRAL DISTRICT

3251 S STREET

SACRAMENTO, CA 95816-7017



Mr. David Okita  
County of Solano  
508 Elmira Road  
Vacaville, California 95687

Dear Mr. Okita:

The Department of Water Resources' Flood Protection and Geographic Information Branch has joined with the Department of Fish and Game, the Department of Parks and Recreation, and Moffat & Nichol Engineers to submit a CALFED proposal for funding of the Franks Tract/Decker Island Wetlands Habitat Restoration Project. The purpose of this letter is to provide you with early notification of our intent to construct a habitat restoration project within your jurisdiction.

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Sincerely,

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Curt Schmutte, Chief  
Flood Protection and Geographic  
Information Branch

**DEPARTMENT OF WATER RESOURCES**

CENTRAL DISTRICT

3251 S STREET

SACRAMENTO, CA 95816-7017



Mr. Milton Kubicek  
County of Contra Costa  
255 Glacier Drive  
Martinez, California 94553

Dear Mr. Kubicek :

The Department of Water Resources' Flood Protection and Geographic Information Branch has joined with the Department of Fish and Game, the Department of Parks and Recreation, and Moffat & Nichol Engineers to submit a CALFED proposal for funding of the Franks Tract/Decker Island Wetlands Habitat Restoration Project. The purpose of this letter is to provide you with early notification of our intent to construct a habitat restoration project within your jurisdiction.

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Sincerely,

A handwritten signature in black ink, appearing to read "Curt Schmutte".

Curt Schmutte, Chief  
Flood Protection and Geographic  
Information Branch



APR. 05 1999

Mr. Richard Block  
Mega Sand, Inc.  
Post Office Box 397  
Antioch, California 94509

Dear Mr. Block:

Thank you for providing the Department of Water Resources with a copy of Mega Sand's Reclamation Plan for its proposed borrow activity on Decker Island. I am very interested in the future restoration plans proposed at the borrow site.

DWR is proposing a similar restoration project on the northern tip of Decker Island on land owned by the Department of Fish and Game. DWR is proposing to borrow additional material (approximately 800,000 cubic yards) from the northern tip of Decker Island for a demonstration project for construction of habitat on islands at Franks Tract. This increase in borrow activity will provide an opportunity to increase the size of the restoration project to include all of the land owned by DFG on Decker Island.

Enclosed is a copy of the Initial Study for the Decker Island Habitat Development project. We will provide you with Phase I bid documents and additional information regarding the proposed Phase II restoration project on Decker Island as final documents are produced.

If you have any questions or would like additional information, please contact me at (916) 227-7567.

Sincerely,

original signed by  
Dave Lawson

for Curt Schmutte, Chief  
Flood Protection and  
Geographic Information Branch

Enclosure

MLewis:Nancy Serrato  
Megasandfml.doc  
Spell check April 5, 1999

**FRANKS TRACT/DECKER ISLAND WETLANDS HABITAT RESTORATION  
PHASE'S II&III: DEMONSTRATION ISLAND CONSTRUCTION AND MONITORING**

Table 2. Monitoring and Data Collection Information for Biological and Ecological Objectives

Hypothesis to be Evaluated	Monitoring Parameters	Data Evaluation Approach	Comments and Data Priority
Spawning habitat will be increased for native fish species	Larval fish occurrence using light traps	BACIP <sup>1</sup>	Methods will be consistent with IEP protocol for similar studies; a final monitoring plan will be submitted to CALFED and IEP for peer review; raw monitoring results will be reported after each field sampling period and an annual report will evaluate and summarize the results
Rearing habitat will be increased for native fish species	Adult and juvenile fish occurrence using appropriate methods	BACIP <sup>1</sup>	
Predation and competition by non-native species will not be enhanced	Adult and juvenile fish occurrence using appropriate methods	BACIP <sup>1</sup>	
Food availability will be increased	Benthic invertebrate occurrence	BACIP <sup>1</sup>	

<sup>1</sup>BACIP is a procedure that includes sampling before and after project implementation in control (i.e., reference) and impact sites. A total of 30 sites are proposed to be sampled.